

**Amendments to the Specification:**

On page 1, after the title and before line 1, please insert the heading:

**Background**

On page 2, before the paragraph beginning on line 27, please insert the heading:

**Summary**

On page 3, please amend the paragraph spanning lines 9-14 as follows:

The object is achieved in ~~conformity with claim 1~~ one aspect by means of a magnetic resonance imaging apparatus which is provided with at least one electrical accessory device for use during the examination of an object, as well as with a connection lead which is to be guided through an examination zone of the magnetic resonance imaging apparatus, which zone can be exposed to an RF field, and which lead is intended to connect the accessory device to a connection unit, at least one lead segment, having a length which is limited by at least one inductive coupling element and is unequal to  $n \cdot \lambda / 2$ , being connected in the connection lead, where  $\lambda$  denotes the RF wavelength and  $n = 1, 2, 3, \dots$

On page 3, please delete the paragraph spanning lines 15-17 in its entirety.

On page 3, please amend the paragraph spanning lines 18-27 as follows:

Special advantages of these solutions ~~consist~~ include inter alia in that the endangering of the patient by heating of the connection lead is reliably precluded for practically all field strengths of the RF field so that the connection lead can be installed directly in the bed of the patient. The risk of damaging of a connection unit

connected to the connection lead, notably by RF currents induced in the connection lead, is at least substantially precluded.

On page 3, please delete the paragraph spanning lines 28-29 in its entirety.

On page 3, please delete the paragraph spanning lines 30-31 in its entirety.

On page 3, please delete the paragraph spanning lines 32-33 in its entirety.

On page 4, please delete the paragraph spanning lines 1-2 in its entirety.

On page 4, please delete the paragraph spanning lines 3-4 in its entirety.

On page 4, please delete the paragraph on line 5 in its entirety.

On page 4, after the paragraph ending on line 5, please insert the following paragraph, and heading:

Advantages of the present application will be apparent to those of ordinary skill in the art upon reading and understanding the following detailed description.

#### **Brief Description of the Drawings**

On page 4, before the paragraph beginning on line 27, please insert the heading:

#### **Detailed Description**

On page 6, please amend the paragraph beginning on line 33 and continuing to page 7, line 8 as follows:

The connection lead 13 has a plurality of lead segments 131,~~342~~ 132,.... The length of these segments is unequal to  $n*\lambda/2$  ( $n = 1, 2, 3, \dots$ ), where  $\lambda$  is the wavelength with which the RF pulses are transmitted. The segments 131, 132,... are, therefore, non-resonant for the common mode signal. The length of the segments is preferably as small as possible and lies notably between  $\lambda/4$  and  $\lambda/8$ . Respective transformers 141,142,..., are provided for connecting the individual lead segments 131,132,... to one another; the differential mode signals can be transmitted via said transformers so as to be conducted via the connection lead 13. The transformers 141,142 are proportioned such that the coupling capacitance C between the primary side and the secondary side is as small as possible and preferably not smaller than 250 Ohm (or larger than 250 Ohm in an absolute sense).

On page 7, please amend the paragraph spanning lines 22-28 as follows:

The connection lead 13 can be realized, for example, in conformity with a first embodiment as shown in Fig. 4. This is a two-wire lead (for example, a twisted pair), three lead segments 131,132, 133 of which are shown. The lead segments are coupled to one another via a respective transformer 141,~~142~~ 142 whose primary and secondary windings L1, L2 terminate the respective lead segment. Optionally, the lead segments 131,132, 133 may be provided with a shield 151,152, 153; the shields then overlap one another in a contactless manner at the area of the transformers 141,~~142~~ 142.

On page 10, after the last paragraph ending on line 12, please insert the following new paragraph:

The invention has been described with reference to the preferred embodiments. Modifications and alterations may occur to others upon reading and understanding the preceding detailed description. It is intended that the invention be

constructed as including all such modifications and alterations insofar as they come within the scope of the appended claims or the equivalents thereof.